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New 1-isoxazol-5-yl, 3-pyrazol-4-yl benzene derivatives - are herbicides useful for crop plants e.g. corn or wheat (Jpn)

C98-013844 N(AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE ES FI GB GE HU IL IS JP KE KG KR KZ LC LK LR LS LT LU LV MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK TJ TM TR TT UA UG US UZ VN) R(AT BE CH DE DK EA ES FI FR GB GR IE IT KE LS LU MC MW NL OA PT SD SE SZ UG)

Addnl. Data: ADACHI H, YAMAGUCHI M, MIYAHARA O, KOGUCHI M, TOMITA K, TAKAHASHI A, KAWANA T
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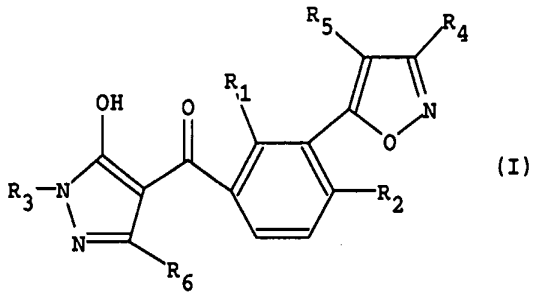
C(7-E1, 14-V2B) .2



(I)

1-Isoxazol-5-yl, 3-pyrazol-4-yl benzene derivatives of formula (I) and their salts are new:

R_1 = halo;
R_2 = halo or 1-6C alkylsulphonyl;
R_3 = H or 1-6C alkyl;
R_4-R_6 = H or 1-6C alkyl.

USE

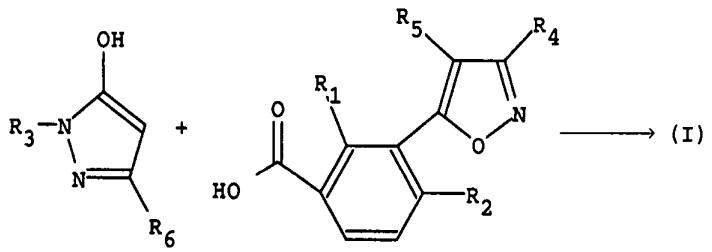
(I) are selective herbicides useful in crop plants such as wheat and

corn.

SPECIFIC COMPOUNDS

7 Compounds (I) are specifically claimed e.g. 4-[2-chloro-3-(3-methyl-1,2-isoxazol-5-yl)-4-methylsulphonyl]benzoyl-1-ethyl-5-hydroxy pyrazole; 4-[2,4-dichloro-3-(3-methyl-1,2-isoxazol-5-yl)]benzoyl-1-ethyl-5-hydroxypyrazole; and 4-[2,4-dichloro-3-(3-methyl-1,2-isoxazol-5-yl)]benzoyl-1,3-dimethyl-5-hydroxypyrazole.

PREPARATION



EXAMPLE

2-Chloro-4-methanesulphonyl-3-(3-methyl-1,2-isoxazol-5-yl) benzoyl chloride (1.58 g) in CH_2Cl_2 (5 ml) was added dropwise to 1-ethyl-5-hydroxypyrazole HCl (0.7 g) and NEt_3 (0.95 g) in CH_2Cl_2 (20 ml) and the mixture was stirred for 1 hour at room temperature. Work-up including silica gel chromatography gave 0.73 g 4-[2-chloro-3-(3-methyl- 1,2-isoxazol-5-yl)-4-methylsulphonyl benzoyl]-1-ethyl-5-hydroxypyrazole, m.pt. 230-233 °C.

HERBICIDAL DATA

(I; $R_3 = R_4 = Me$; $R_1 = Cl$, $R_2 = SO_2Me$ and $R_5 = H$) at 63 g/ha gave 100% control of *Echinochloa crus galli* and *Xanthium strumarium*, with no phytotoxicity towards wheat. (SCG) (51pp1839DwgNo.0/0)

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